Geological Engineering B.S./M.S.

Get training to become a highly-qualified geological engineer capable of conducting research and solving complex geological challenges.

If you’re looking for the most efficient way to achieve a graduate-level education, choose a combined B.S. and M.S. program from UND. The Harold Hamm School of Geology & Geological Engineering offers access to unique laboratory research and an extensive samples library.

**Program type:** Combined (Major and Master's)  
**Format:** On Campus or Online  
**Est. time to complete:** 4-6 years  
**Credit hours:** 155 (thesis option), 159 (non-thesis option)

### Why earn a combined degree in geological engineering?

**Application Deadlines**

**Fall:** Feb. 1* | April 15^  
**Spring:** Dec. 15  
**Summer:** May 1

*Freshman Priority Deadline  
^Transfer Priority Deadline

**Graduate Application Deadlines**

**Fall:** March 1* | Aug. 1  
**Spring:** Sept. 1* | Dec. 15

*Priority deadline

Students seeking the combined degree may apply to the School of Graduate Studies after completing 60 credits.

Take the fast path to your master’s education with a combined degree program in geological engineering. Success in geological engineering relies on a broad-based education with exposure to many kinds of environments and applications. The UND geological engineering program has expertise in petroleum and geothermal energy, mineral production, geoenvironmental concerns and natural hazards.

This combined program is focused on giving you the real-world expertise to:

- Solve practical problems in geological engineering with technical skills in geoscience, mathematics, computer modeling and poro-mechanics.  
- Conduct independent research to advance the field and offer innovative solutions to technical problems in areas such as exploration and production of energy and mineral resources, geomechanics, hydrogeology, ground water remediation and site investigation.  
- Be prepared for a career in industry, government or pave the way to a profession in teaching on your way to pursuing a doctoral degree.

### How Combined Geological Engineering Degrees Work
If you are an incoming freshman or transfer student, apply to UND and your program. As a current student, connect with your advisor to make sure you stay on track for the combined or accelerated program. During your junior year, you can officially apply to the School of Graduate Studies. Complete the required courses, and you'll earn both your undergraduate and graduate degree at the same time.

Geological Engineering at UND

- Take advantage of an opportunity to extend your studies to include a graduate degree.
- Learn from a curriculum that incorporates geology with elements of civil, environmental, mining and petroleum engineering.
- Gain a broad background in physical and social sciences, humanities, communications, mathematics, geology and engineering.
- Learn through real-world experience such as cooperative work studies, internships, field research and laboratory projects.
- Gain access to a sample library with 80 miles of cores and approximately 40,000 boxes of drill cuttings of the Williston Basin, as well as an extensive collection of water well samples and cores.

Geological Engineering Careers

91K Median salary range for a mining and geological engineer, 2019
- U.S. Bureau of Labor Statistics

3% Job growth outlook in this field, 2019
- U.S. Bureau of Labor Statistics

Top companies like Marathon Oil, 3M, Boston Scientific, Dow Chemical, Schlumberger, Intel, Energizer Battery, US Steel and many others have hired UND graduates. Some typical career opportunities in geological engineering include:

- Geologist petroleum engineer
- Environmental engineer
- Hydrogeologist
- Mining engineer
- Geotechnical engineer

When You Earn a degree in Geological Engineering

A degree in Geological Engineering gives you the strategic skills you need, including:

- Geology
- Geographic Information Systems
- Geotechnical Engineering
- Soil Science
- Geologic Mapping
- ArcGIS (GIS Software)

UND Geological Engineering Alumni

Geological Engineering alumni have gone on to a variety of successful careers with:

- American Engineering Test, Inc.
- Barr Engineering Co.
- Center for Energy and Environment
- Alaska Department of Fish and Game
- Archaeological Research, Inc.
- BJ Services Company
Explore More Options

Connect with the department or discover additional education opportunities.

- Harold Hamm School of Geology & Geological Engineering
- Explore Similar Degrees

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